Index of Claims

Application/Control No.
Applicant(s)/Patent under Reexamination

10/664,151
Examiner
Art Unit

Samuel A. Barts

1621

| <b>/</b> | Rejected | - | (Through numeral)<br>Cancelled | N | Non-Elected  | A | Appeal   |
|----------|----------|---|--------------------------------|---|--------------|---|----------|
| =        | Allowed  | + | Restricted                     | _ | Interference | o | Objected |

| Claim Date     |          |              |          |   |           | ::::     | Claim Date |          |                 |          |               |       |          |          | CI       | aim     |                         | Date     |              |                 |          |       |       |            |                 |          |          |          |          |          |          |                    |          |
|----------------|----------|--------------|----------|---|-----------|----------|------------|----------|-----------------|----------|---------------|-------|----------|----------|----------|---------|-------------------------|----------|--------------|-----------------|----------|-------|-------|------------|-----------------|----------|----------|----------|----------|----------|----------|--------------------|----------|
| inal<br>iginal |          |              |          |   |           |          |            |          | П               | П        |               |       | Т        |          | П        |         |                         |          |              |                 | П        |       |       |            |                 |          |          |          |          |          |          |                    |          |
| Final          | Original | 14           | ł        |   |           |          |            |          |                 |          |               | Final | Original |          |          |         |                         |          |              |                 |          |       | Final | Original   |                 |          |          |          |          |          |          |                    |          |
| ιĒ             | , E      | 65           | 1        |   |           |          |            |          |                 |          |               | ιĒ    | ğ        |          |          |         |                         |          | ĺ            |                 | - 1      |       | ιĒ    | 흕          |                 |          |          |          |          |          |          |                    |          |
|                |          | 9            | <u> </u> |   |           |          |            |          |                 |          |               |       |          |          |          |         |                         |          |              |                 |          |       |       |            |                 |          |          |          |          |          |          |                    |          |
|                | 1        | 7            | <u> </u> | Ш   |           |          |            |          | Ш               | _]       |               |       | 51       | Ш        | $\perp$  | $\perp$ | $\perp$                 |          |              | Ш               |          |       |       | 101        |                 | _        |          |          |          |          |          |                    | _        |
|                | 2        | Ц            | <u> </u> | Ш   |           |          |            |          |                 | _        |               |       | 52       | Ш        |          |         | $\perp$                 | ┸        | _            | Ш               |          |       |       | 102        |                 |          | ļ        |          |          |          |          | $\perp$            | _        |
|                | 3        | Ц            | <u> </u> |   |           |          |            |          |                 | _        |               |       | 53       | Ш        | _        |         | 4                       | ┸        | L            | Ш               |          |       |       | 103        | Ш               |          |          | _        | _        | _        | _        | $\dashv$           | _        |
|                | 4        | Ц            | ↓_       | Ш   |           |          |            |          |                 | _        |               |       | 54       | $\sqcup$ | $\perp$  | $\perp$ | $\bot$                  | _        | $\vdash$     | Ш               | _        |       |       | 104        | $\square$       | $\dashv$ | _        | _        |          | _        | _        | $\dashv$           | ᅴ        |
| <u> </u>       | 5        | Н            | ┼        | Ш   | _         | _        | -          |          | Н               | —        |               |       | 55       | Н        | $\dashv$ | +       | +                       | +        | ₩            | $\sqcup$        | $\dashv$ |       |       | 105        |                 |          |          |          | $\dashv$ | _        | _        |                    | 4        |
| <u> </u>       | 6        | Н            | ╄        | -   |           | -        |            |          |                 | -        |               |       | 56       | $\vdash$ | +        | _       | +                       | $\bot$   | ┼            | Н               |          |       |       | 106        |                 |          | $\dashv$ |          |          | -        | -        | $\dashv$           | ᅴ        |
| <u> </u>       | 7<br>8   | Н            | ╁        | $\vdash$                                    |           |          | -          | _        | $\vdash$        | $\dashv$ |               |       | 57<br>58 | $\vdash$ | +        | +       | +                       | +        | -            | $\vdash \vdash$ | $\dashv$ |       | _     | 107        | $\vdash$        |          |          |          | -        | $\dashv$ | -+       | $\dashv$           | $\dashv$ |
|                | 9        | Н            | ╁        | Н   | $\dashv$  | $\dashv$ | $\dashv$   |          | Н               | $\dashv$ |               |       | 59       | $\vdash$ | +        | +       | +                       | +-       | ├-           | $\vdash$        | ᆛ        |       |       | 108<br>109 | Н               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ┥        | -        | +                  | $\dashv$ |
| <del></del>    | 10       | H            | ┢        | Н   |           | -        |            |          | Н               |          |               |       | 60       | $\vdash$ |          | ┰       | ╁                       | +        | +            | ╌┤              | $\dashv$ |       |       | 110        | $\vdash$        |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$ |
| -              | 11       | Н            | $\vdash$ | Н   | -         | $\dashv$ | $\dashv$   | $\dashv$ | $\vdash$        | $\dashv$ |               |       | 61       | $\vdash$ | +        | +       | +                       | ╁        | ╁            | Н               | $\dashv$ |       |       | 111        | Н               | ╅        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$           | 一        |
|                | 12       | Н            | +-       | $\vdash$                                    |           | $\vdash$ |            | $\vdash$ | Н               | $\dashv$ |               |       | 62       | $\vdash$ | +        | +       | +                       | +-       | +-           | H               | ⊣        |       |       | 112        | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +                  | $\dashv$ |
|                | 13       | H            |          | Н   |           | $\dashv$ |            |          | $\vdash$        | -        |               |       | 63       | H        | 十        |         | +                       | +        | +            |                 |          |       |       | 113        | $\vdash$        |          | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | +                  | $\dashv$ |
|                | 14       |              | ╙        | Н   |           | -        |            |          | $\vdash \vdash$ | $\dashv$ |               |       | 64       |          | $\dashv$ | +       | +                       | +        | $\vdash$     | H               | 一        |       |       | 114        | $\vdash \vdash$ | 一        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$ |
|                | 15       | $\vdash$     | T        | П   |           | $\dashv$ |            |          |                 | $\dashv$ |               |       | 65       | Н        | 十        | 十       | $\top$                  | T        | t            | H               | ヿ゙       |       |       | 115        | Ħ               | 寸        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | 7        | 十                  | ᅥ        |
|                | 16       | Г            |          | П   |           | $\neg$   |            |          | -               | $\neg$   |               |       | 66       | П        | $\dashv$ | $\top$  | $\top$                  | T        |              | П               |          |       |       | 116        | $\Box$          |          | $\neg$   | $\neg$   | 一        |          | $\neg$ † | $\top$             | ┪        |
|                | 17       |              |          |   | コ         |          |            |          |                 |          |               |       | 67       | П        | 十        | 十       | 丅                       | $\top$   |              | П               | $\Box$   |       |       | 117        | $\Box$          | $\neg$   |          |          | 7        |          | 寸        | $\top$             | ㅓ        |
|                | 18       | Z            |          |   |           |          |            |          |                 |          |               |       | 68       |          | 寸        | 十       | $\top$                  |          |              | П               |          |       |       | 118        | $\Box$          | $\neg$   |          |          | ヿ        |          | 7        | $\dashv$           | ᅦ        |
|                | 19       | 7            |          | П   |           |          |            |          |                 |          |               |       | 69       | П        | 1        | Ť       | $\top$                  | T        |              | П               |          |       |       | 119        |                 | T        |          |          |          |          |          | $\exists$          | П        |
|                | 20       | П            |          |   |           |          |            |          |                 |          |               |       | 70       |          |          |         |                         |          |              |                 |          |       |       | 120        |                 |          |          |          |          |          |          | $\Box$             |          |
|                | 21       | $\mathbb{Z}$ | 1_       | Ш   | l         |          |            |          |                 | _        |               |       | 71       |          |          | $\perp$ |                         |          |              |                 |          |       |       | 121        |                 |          |          |          |          |          |          | $\Box$             |          |
|                | 22       | ¥            | _        |   |           |          | $\Box$     |          |                 | $\Box$   |               |       | 72       |          |          |         | ┸                       | _        |              |                 |          |       |       | 122        |                 |          |          |          |          |          |          | $\perp$            |          |
|                | 23       | Ш            |          | Ш   | _         |          | _          |          |                 | _        |               |       | 73       |          | $\perp$  | $\bot$  | $\perp$                 | ┸        |              | Ц               |          |       |       | 123        | Щ               | _        | _        | _        |          | _        | _        | $\dashv$           | Ц        |
| <u> </u>       | 24       | Ц.           | <u> </u> | Ш   | _         |          | _          |          | Щ               | _        |               |       | 74       |          | _        | $\perp$ | <u> </u>                | <u> </u> | _            | $\sqcup$        |          |       |       | 124        | Ц               |          | _        | _        | _        | _        | _        | _                  | _        |
| <u> </u>       | 25       | Н            | <u> </u> | Ш   | _         |          | _          |          |                 | _        |               |       | 75       | Ш        | _        | 4       | _                       | _        | $\bot$       | $\sqcup$        |          |       |       | 125        | Щ               | _        | _        | _        | _        | _        | 4        | 4                  | ᆚ        |
|                | 26       | Н            | 1        | Ш   |           | _        |            |          | $\sqcup$        | _        |               |       | 76       | Ш        | $\perp$  | $\perp$ | $\bot$                  | _        |              |                 |          |       |       | 126        | $\sqcup$        | $\dashv$ | _        | _        | _        | _        | _        | $\dashv$           | ᆚ        |
| -              | 27       | Н            | ┞        |   | -         | _        |            | $\Box$   |                 | 4        |               |       | 77       | Н        | +        | +       | +                       | +        | $\vdash$     | $\sqcup$        | _        |       |       | 127        |                 |          |          |          |          |          |          | $\dashv$           | -        |
|                | 28<br>29 | H            | ├        | $\vdash$                                    |           | $\dashv$ | -          |          | $\vdash$        | -        |               |       | 78       | $\vdash$ | $\dashv$ | +       | +-                      | +        | ļ            | H               |          |       |       | 128        | $\dashv$        | _        |          |          | -        | $\dashv$ | _        | $\dashv$           |          |
| <u> </u>       | 30       | Н            | -        | Н   | $\dashv$  | $\vdash$ | $\dashv$   | $\vdash$ | $\vdash$        |          |               | -     | 79<br>80 | $\vdash$ | -+       | +       | ╁                       | +        | ╆            | -               |          |       | -     | 129        |                 |          | -        |          |          | -        |          | -+                 | _        |
| -              | 31       | Н            | ⊢        | Н   | $\dashv$  | $\vdash$ | $\dashv$   |          | $\vdash$        | $\dashv$ |               |       | 81       | ┥        | -+       | +       | +                       | +        |              | ┝┼              | $\dashv$ |       |       | 130<br>131 | $\vdash$        | $\dashv$ |          | $\dashv$ |          | -        | +        | $\dashv$           |          |
|                | 32       | 1            | ╁        | Н   | $\dashv$  | $\dashv$ | $\dashv$   | $\dashv$ | $\vdash$        | $\dashv$ |               | .     | 82       | ┝┤       | -+       |         | +-                      | +        | $\vdash$     | $\vdash \vdash$ | $\dashv$ |       |       | 132        |                 |          |          | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$           |          |
|                | 33       | -            | 1        | ╁╾┤   | $\dashv$  | $\dashv$ | $\dashv$   | $\vdash$ | $\vdash$        | $\dashv$ |               |       | 83       | ┤┤       | $\dashv$ | +       | +                       | +        | +            | $\vdash$        |          |       |       | 133        | $\vdash$        | $\dashv$ |          |          |          |          | -+       | $\dashv$           | _        |
|                | 34       | Ť            | $\vdash$ | $\vdash$                                    | -         | $\dashv$ | $\dashv$   | $\vdash$ | $\vdash$        | $\dashv$ |               |       | 84       |          | $\dashv$ | +       | +                       | +        | +            |                 |          |       |       | 134        | $\vdash$        | $\dashv$ | $\dashv$ |          |          |          | $\dashv$ | $\dashv$           | $\dashv$ |
|                | 35       | H            | $t^{-}$  | H   | $\dashv$  | $\dashv$ | $\dashv$   | $\dashv$ | $\vdash$        | $\dashv$ |               |       | 85       | $\vdash$ | $\dashv$ | +       | +-                      | +-       | <del> </del> | $\vdash$        | $\neg$   |       |       | 135        | $\vdash$        | 一        |          | -        | $\dashv$ | $\dashv$ | $\dashv$ | 十                  | $\dashv$ |
|                | 36       | H            | T        | $\vdash$                                    |           | $\dashv$ | 一          |          |                 | $\dashv$ |               |       | 86       | $\vdash$ | +        | +       | +                       | +        | T            | $\vdash$        | 一        |       |       | 136        | $\vdash$        | 一        | -        | $\neg$   | $\dashv$ | $\dashv$ | $\dashv$ | 十                  | $\dashv$ |
| <u> </u>       | 37       | 7            | 1        | П   | 寸         | $\dashv$ | $\dashv$   |          | П               | $\dashv$ |               |       | 87       | H        | 十        | +-      | ╁                       | +        | 1            |                 |          |       | -     | 137        | H               | 寸        | T        | $\dashv$ |          |          | -1       | 十                  | ᅱ        |
|                | 38       | 7            |          | П   | _         | 一        |            |          | $\vdash$        |          |               |       | 88       | H        | $\dashv$ | $\top$  | $\top$                  | T        | T            | $\Box$          |          |       |       | 138        | $\Box$          | 一        | $\dashv$ | $\dashv$ | 寸        | 一        | 寸        | 十                  | $\dashv$ |
|                | 39       |              |          | $\Box$                                      | $\exists$ |          | T          |          |                 | $\neg$   |               |       | 89       | П        | 1        | _       | 1-                      | 1        | T            |                 | $\neg$   |       |       | 139        | П               | 寸        | 寸        |          |          |          | T        | 1                  |          |
|                | 40       |              |          |   |           | $\Box$   | $\neg$     |          |                 | $\neg$   |               |       | 90       | П        | $\neg$   |         | 丅                       | T        | T            |                 | $\neg$   |       |       | 140        | $\Box$          |          |          |          | 寸        | 一        |          | $\top$             | $\neg$   |
|                | 41       |              | L        |   |           |          |            |          |                 |          |               |       | 91       |          |          |         |                         |          |              |                 |          |       |       | 141        |                 |          |          |          |          |          | $\Box$   | 丁                  |          |
|                | 42       |              |          |   |           |          |            |          |                 |          |               |       | 92       |          |          |         | $oldsymbol{\mathbb{T}}$ | Ι        |              |                 |          |       |       | 142        |                 |          |          |          |          |          |          | $\Box$             |          |
|                | 43       |              | Ŀ        |   |           | $\Box$   |            |          |                 |          |               |       | 93       |          |          |         |                         |          |              |                 |          |       |       | 143        |                 | ┚        |          |          |          |          |          | $\Box$             |          |
|                | 44       |              | ļ        | $\Box$                                      | ⇉         | $\Box$   | $\Box$     |          | Ш               |          |               |       | 94       | Ш        |          |         |                         | Ţ        |              |                 |          |       |       | 144        |                 |          |          |          |          |          |          | $oldsymbol{\perp}$ |          |
|                | 45       |              |          | $\square$                                   | [         |          |            |          |                 | $\Box$   |               |       | 95       | Ш        | $\Box I$ |         | Ţ                       | L        |              | Ш               |          |       |       | 145        |                 |          |          |          |          |          | Ţ        | $oldsymbol{\perp}$ |          |
| <u> </u>       | 46       |              | <u> </u> | Ш   |           | $\bot$   |            | $\Box$   | Ш               |          |               |       | 96       | Ш        | $\bot$   |         |                         |          |              |                 |          |       |       | 146        |                 |          |          |          |          |          | [        | $\perp$            |          |
| L              | 47       |              | <u> </u> | Ш   |           |          |            | $\Box$   | Ш               | _        |               |       | 97       | Ш        |          |         |                         | L        | $\perp$      | $\sqcup$        |          |       |       | 147        | Ш               |          |          |          | [        | [        | [        | $oldsymbol{\perp}$ |          |
| <u> </u>       | 48       |              | <u> </u> | Ш   | _         | _        | _          |          | $\sqcup$        |          |               |       | 98       | Ш        | _        | $\bot$  | $\bot$                  |          | 1_           | $\sqcup$        | _        |       |       | 148        | Щ               |          |          |          | ļ        | _        |          | _                  |          |
| L              | 49       |              | <b>!</b> |   | _         |          | _          | _        | $\sqcup$        | _        |               |       | 99       | Ш        |          |         | _                       | $\perp$  | 1            |                 |          |       |       | 149        | Ш               | _        |          | _        |          | _        |          | $\dashv$           | Ц        |
| L              | 50       |              |          | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{ld}}}$ |           |          |            |          |                 | :        | :::: <b>[</b> |       | 100      | Ш        |          |         |                         |          | 1            |                 |          | ::::: |       | 150        | ш               |          |          |          |          |          |          | $oldsymbol{\perp}$ |          |